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KD-Validated Anti-Nicastrin Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1442

Specification

KD-Validated Anti-Nicastrin Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	Q92542
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted , 78 kDa , observed , 110-120 kDa KDa**
Gene Name	**NCSTN**
Aliases	**Nicastrin; ATAG1874; Anterior Pharynx-Defective 2; KIAA0253**
Immunogen	**A synthesized peptide derived from human Nicastrin**

KD-Validated Anti-Nicastrin Rabbit Monoclonal Antibody - Additional Information

Gene ID	**23385**

Other Names
Nicastrin, NCSTN, KIAA0253

KD-Validated Anti-Nicastrin Rabbit Monoclonal Antibody - Protein Information

Name NCSTN

Synonyms KIAA0253

Function
Essential subunit of the gamma-secretase complex, an endoprotease complex that catalyzes the intramembrane cleavage of integral membrane proteins such as Notch receptors and APP (amyloid- beta precursor protein) (PubMed:10993067, PubMed:12679784, PubMed:25043039, PubMed:26280335, PubMed:30598546, PubMed:30630874). The gamma-secretase complex plays a role in Notch and Wnt signaling cascades and regulation of downstream processes via its role in processing key regulatory proteins, and by regulating cytosolic CTNNB1 levels.

Cellular Location
Membrane; Single-pass type I membrane protein. Cytoplasmic vesicle membrane; Single-pass type I membrane protein. Melanosome. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV

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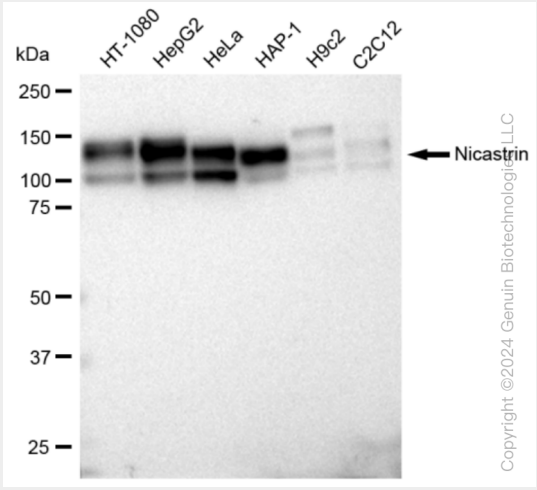
Tissue Location
Detected in brain (at protein level) (PubMed:10993067). Widely expressed (PubMed:11396676)

KD-Validated Anti-Nicastrin Rabbit Monoclonal Antibody - Protocols

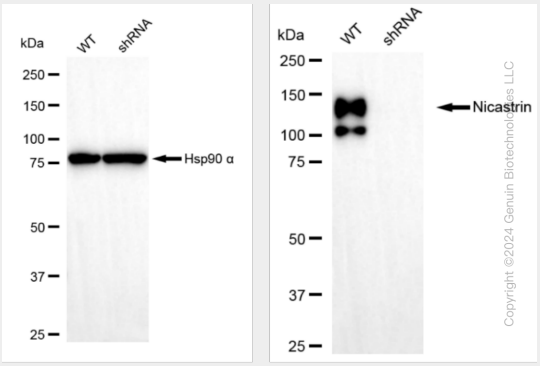
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-Nicastrin Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Nicastrin antibody (Cat#AGI1442). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Nicastrin antibody (Cat#AGI1442, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Nicastrin antibody (Cat#AGI1442). Nicastrin expression in wild type (WT) and Nicastrin shRNA knockdown (KD) HT-1080 cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-Nicastrin antibody

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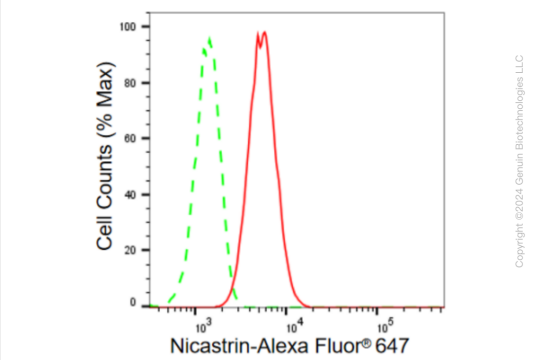
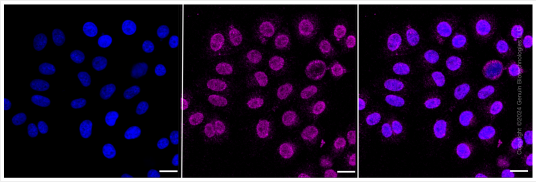
(Cat#AGI1442, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Nicastrin expression in HepG2 cells using Nicastrin antibody (Cat#AGI1442, 1:2,000). Green, isotype control; red, Nicastrin.



Immunocytochemical staining of HepG2 cells with Nicastrin antibody (Cat#AGI1442, 1:1,000). Nuclei were stained blue with DAPI; Nicastrin was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.